Greening Building Regulations
City of Scottsdale

Anthony Floyd, AIA LEED-AP
Scottsdale Green Building Program

Green Building Instruments

Rating Systems	Standards	Codes & Ordinances
LEED	ASTM	IBC
Energy Star	ASHRAE	IMC
Green Globes	Green Seal	IECC
NAHB	GreenGuard	Local Ord's
Local GB Programs	Local Std's	

National Green Rating Systems

- US Green Building Council – LEED™
  - Commercial
    - New construction, Existing Buildings, Commercial Interiors, Core & Shell
  - LEED for Homes
  - Neighborhood Development

LEED for HOMES

Rating Categories by Environmental Impacts

- Site Use
- Energy
- Building Materials
- Indoor Air Quality
- Water
- Solid Waste

Rating by Construction Categories

1. Site Use
2. Structural Elements
3. Building Envelope
4. HVAC & Indoor Air Quality
5. Electrical Power, Lighting & Appliances
6. Plumbing System
7. Roofing
8. Exterior Finishes
9. Interior Finishes
10. Interior Doors, Cabinetry, Trim
11. Finish Floor
12. Solid Waste
13. Innovative Design

Green Building Program

Sustainable Building in the Sonoran Desert

- Climatic and geographic characteristics are unique to the region.
- Utilization of local resources such as solar for energy and daylighting.
- Regional materials.

Green Building Program

- Voluntary participation
- Qualification criteria
- Oversight by Green Building Advisory Committee
  - program criteria, education, outreach

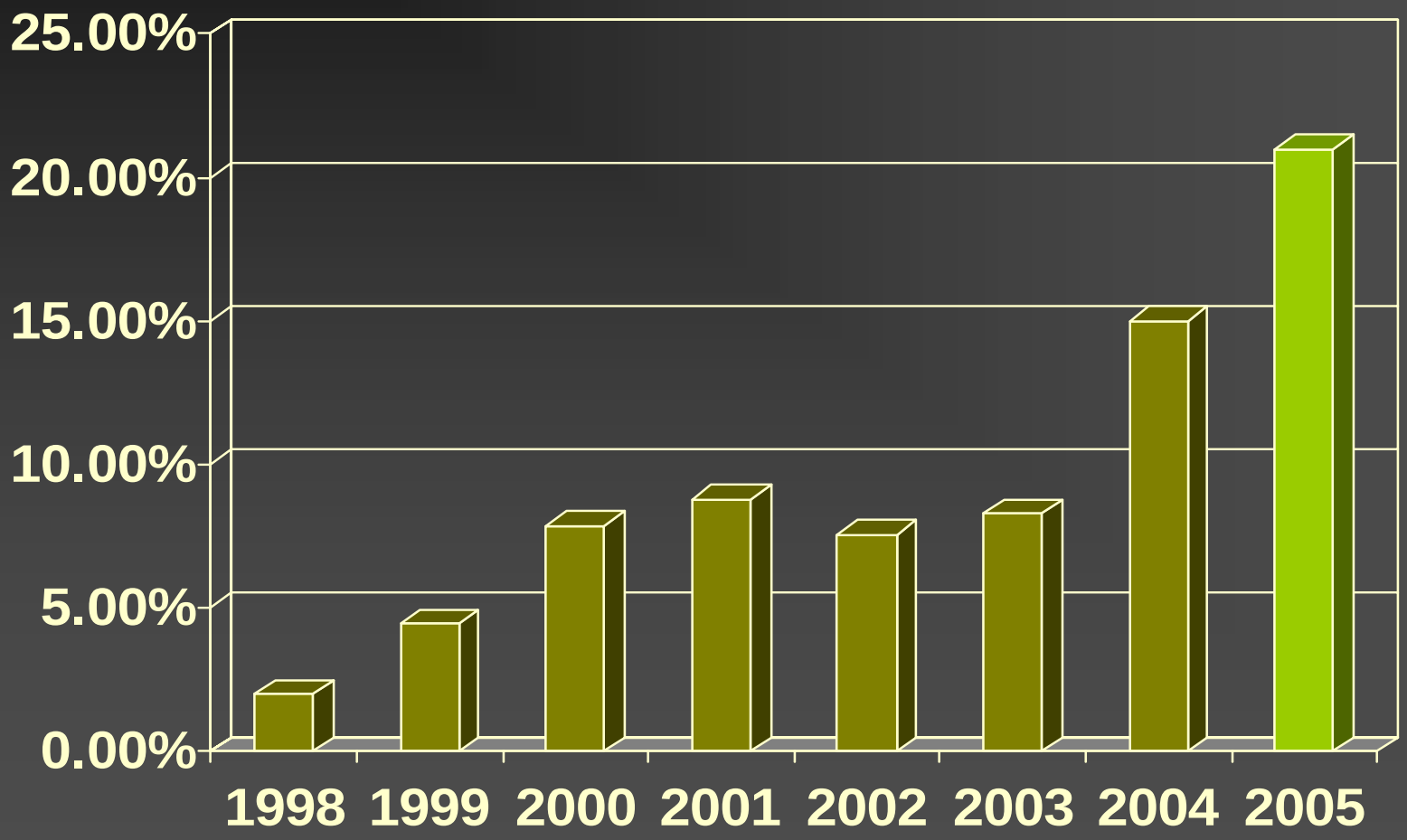
Incentives

- Expedited review & process assistance
- Market differentiation for builders & designers (directory and signs)
- Promotion material, education & public events

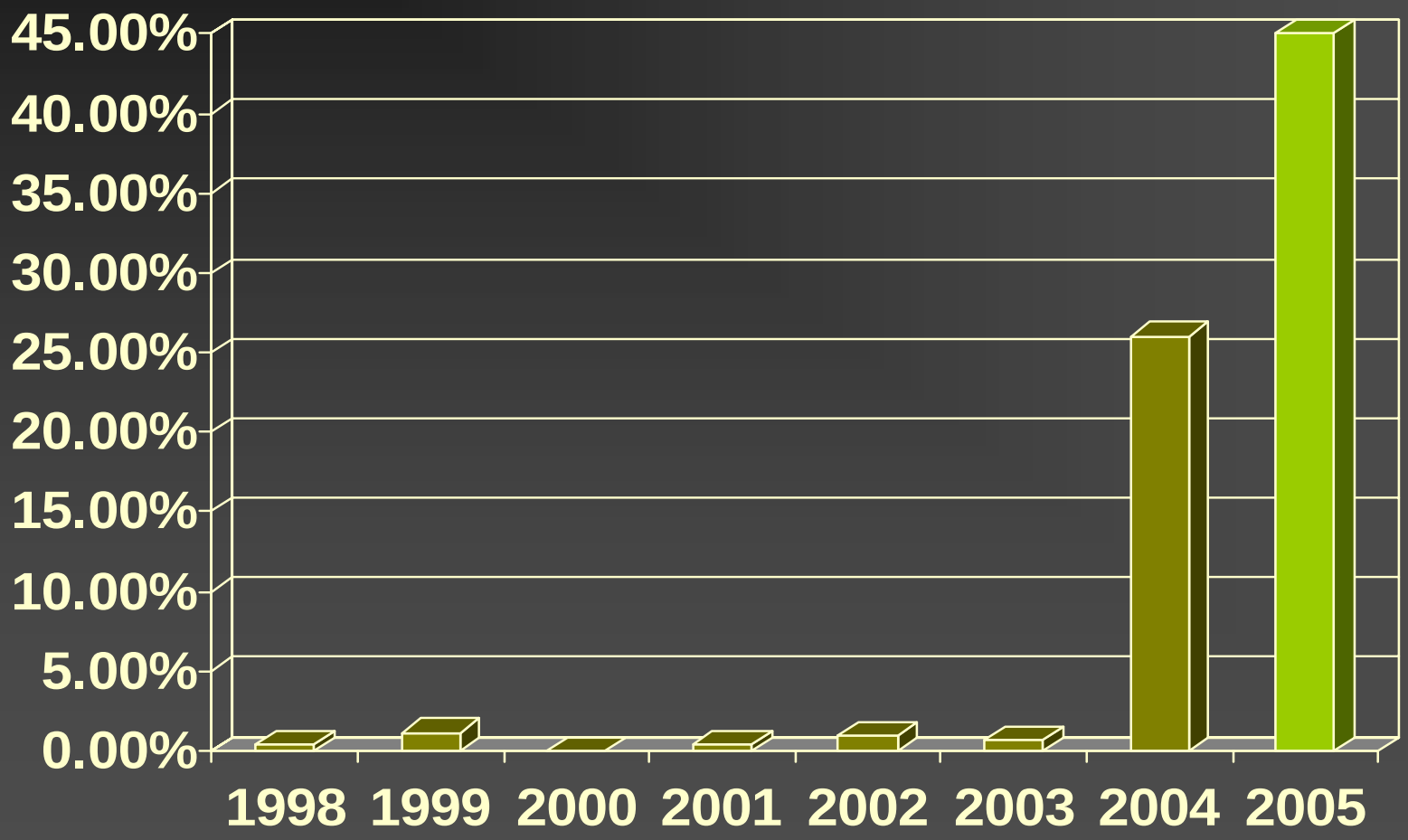
Green Permit Activity

- In 2005
  - 33% of all new single-family residential permits were green (436 permits)
  - 97 participating builders
- 1998 to 2005
  - 932 green permits have been issued

Green Custom Home Permits



Green Production Home Permits



Integration with Development Process

- Planning and Development
  - Development Review
  - Plan Review and Inspections
- Building and Energy Codes
  - International Building Codes
  - International Energy Conservation Code

Green Building and the Building Permit Process

- Project qualification meeting
- Plan review submittal
- Green Building Permit
- Inspections
- Green Certificate of Occupancy

Project Qualification

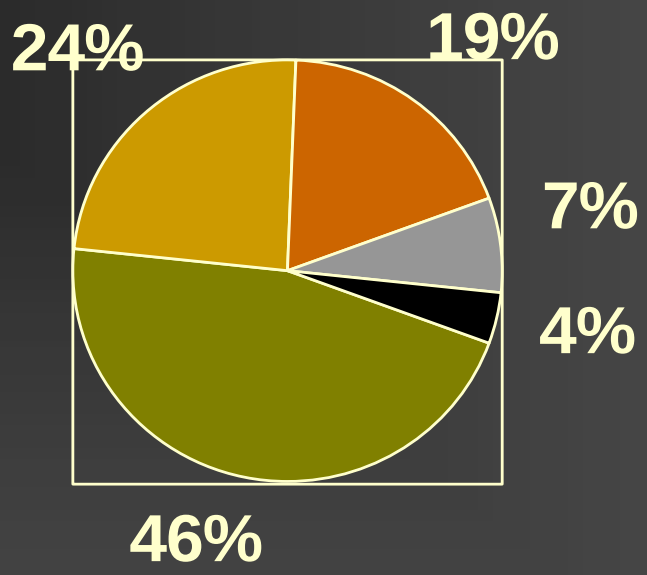
- Mandatory Items (28 requirements)
- Rating Options
  - 135 total options with 270 max. possible points
- Rating Levels
  - Entry Level – 50 to 100 points
  - Advanced Level – 100 – 200 points
  - Exemplary – 200 or more

Rating Categories

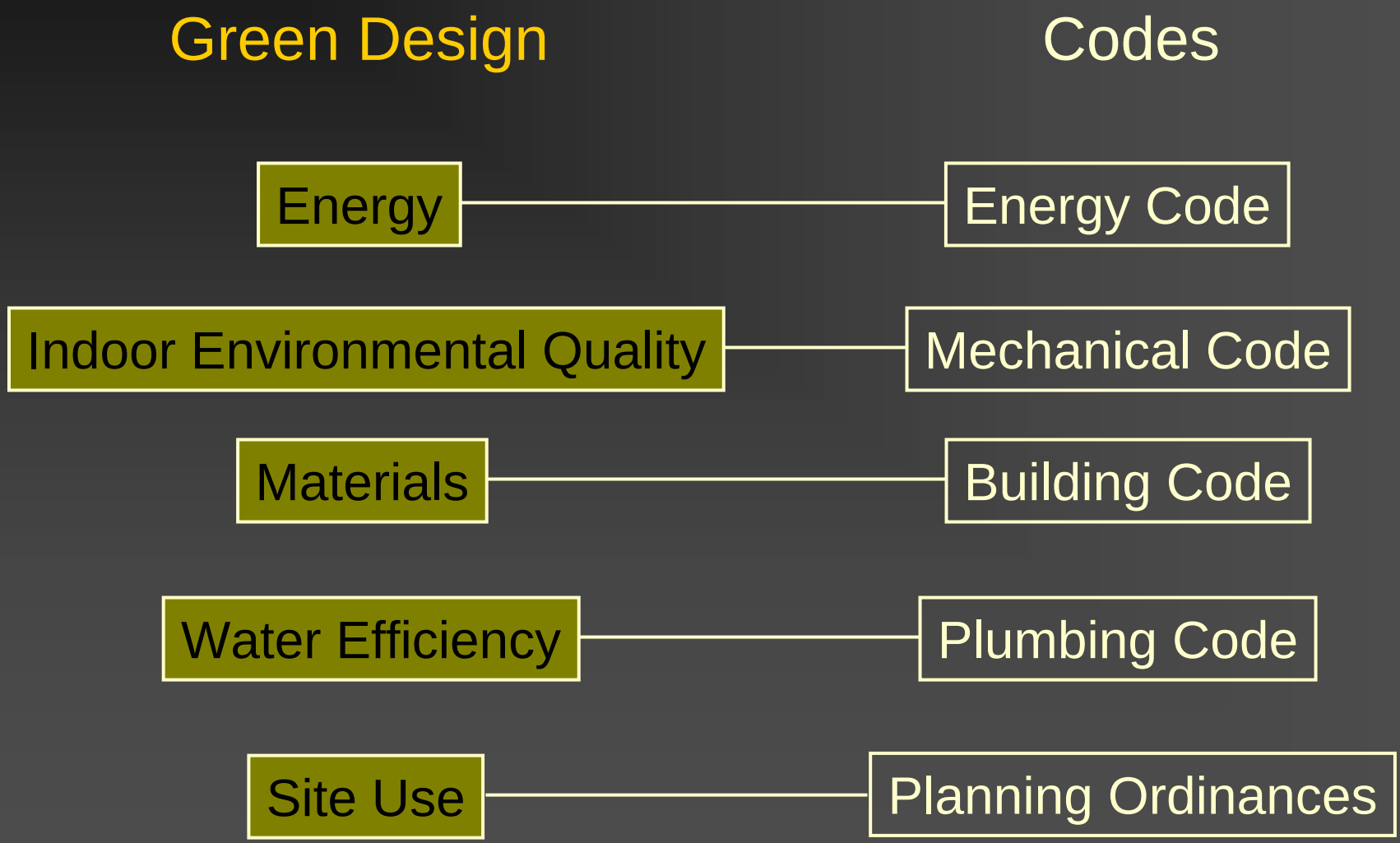
Organized by Construction

1. Site
2. Structural Elements
3. Thermal Envelope
4. HVAC & Indoor Air Quality
5. Electrical Power, Lighting & Appliances
6. Plumbing System
7. Roofing
8. Exterior Finishes
9. Interior Finishes
10. Interior Doors, Cabinetry, Trim
11. Finish Floor
12. Solid Waste
13. Innovative Design

Green Rating
By Environmental Impact Areas



Green Building and Codes



Plan Review Process

- Project Qualification
  - preliminary review
  - enrollment & rating checklist
  - log-in for tracking green projects
- Plan Review
  - approval of construction documents
  - green building inspection card
  - green certificate of compliance

Inspection/Verification Process

- Green Permit
- Building Inspections
  - 17 mandatory and 0 - 50 selected options
- Self-Certified
  - 7 mandatory and 0 - 60 selected options
- Green Certificate of Occupancy
  - Certificate of Compliance at final inspection

City of Scottsdale

SCOTTSDALE

GREEN BUILDING PROGRAM

Green Building Rating Checklist

Residential – New Construction, Major Remodels & Additions

Sept. 1, 2006 - Update

Plan Check # _____ Building Permit # _____ GB Total Points _____

Project or Owner's Name - _____

Project Address - _____

Designer Name - _____

Builder Name - _____

Use this rating worksheet to qualify projects under the Green Building Program for one- and two-family dwellings and multiple single-family dwellings (townhouses and condominiums) not more than three stories in height with a separate means of egress (International Residential Code - IRC Section R101.2).

All building system components, materials, and equipment must be installed per code and manufacturer's instructions.

Entry Level	Advanced Level
• Meet all mandatory measures and adjust rating for house size (p. 2 – 7). • Accumulate 50 - 99 points from the rating checklist (p. 8 –26).	• Meet all mandatory measures and adjust rating for house size (p. 2 – 7). • Accumulate 100 or more points from the rating checklist (p. 8 – 26).

Summary of Rating Categories		
1. Site	6. Electrical Power, Lighting, Appliances	11. Interior Doors, Cabinetry, Trim
2. Structural Elements	7. Plumbing System	12. Flooring
3. Energy Rating/Performance	8. Roofing	13. Solid Waste
4. Thermal Envelope	9. Exterior Finishes	14. Innovative Design
5. Heating, Ventilation, & Air Conditioning	10. Interior Finishes	

Green Building Inspection Checklist

Plan Check # _____ **GB Total Points** _____

For a complete description, see the Green Building Rating Checklist

P= Points M = Mandatory O = Options

Ref #	Green Building Measures	P	M	O	Approval
5/7,8,9 Soil Inspection					
22	Fully Insulate Hot water lines with R-2		X		
14 Strap and Shear					
1.15	Install utility supplied power	1+		☐	
2.9	Insulated wall system Integral/SIP/ICF/AAC	2+		☐	
3.5	Radiant barrier on roof sheathing	1		☐	
13.1	Outside Recycling bins during construction	1+		☐	
15-18/21 Rough Frame Inspection					
5	Seal all penetration in building envelope		X		
7	Install Return Air ducts or transfer grilles in each room with a door		X		
8	Seal all duct joints with water based mastic		X		
9	Supply ducts insulated (R-4.2 in conditioned spaces) (R-8 non conditioned spaces)		X		
10	Refrigerant piping shall be insulated with R-2		X		
12	Install at least (3) ceiling fan boxes		X		
13	Install carbon monoxide detectors		X		
20	I.C. rated lights at insulated ceilings		X		
21	Install task lighting bathroom/kitchen/laundry		X		
4.3	House is wrapped with infiltration barrier	1		☐	
5.15	Central vacuum system vented to the outside	2		☐	
5.16	Exhaust fan in garage minimum of 100 cfm	1		☐	
6.3	Recessed lights do not penetrate barriers	2		☐	
6.6	Install control lighting with smart wiring system.	2		☐	
6.8	Laundry room has gas dryer stub out	1		☐	
6.12	Electrical rough-in for solar panels	2		☐	
7.1	All hot water lines insulated R-4	1		☐	
7.4	Plumbing rough-in on roof, stub out for solar hot water panels	2		☐	
7.5	Hot water circulation loop	2		☐	
7.6	Water Central Manifold Distribution System	2		☐	
7.10	Two-pipe drain system for gray water	2+		☐	
8.7	Continuous ridge vent and vented eaves	2		☐	

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Instructions: The certification section of this form is to be signed by the Building Permit Holder and submitted to the building inspector at the time of Final Inspection. The Permit Holder is responsible for all mandatory green building measures and selected options as indicated on this form.

Plan Check # _____ Building Permit # _____ GB Total Points _____

Project Address _____

For a complete description of checklist items and point options, see the Green Building Rating Checklist.
P = Points **M** = Mandatory **O** = Selected Options

Checklist Ref. No.	Green Building Measures	P	M	O
Site				
2	At least 80% of landscaping is Xeriscape or native.		X	
Indoor Environmental Quality				
15	Install air filters with a min. MERV rating of 8. Ensure that air handlers can maintain adequate pressure and air flow OR install a ductless space conditioning system.		X	
18	Seal off ducts during construction OR clean HVAC ducts, coils and blower fan before occupancy.		X	
Lighting				
19	At least 50% of interior wall surfaces are colored with a minimum Light Reflective Value (LRV) of 40%. At least 50% of interior ceiling and soffit surfaces are colored with a minimum LRV of 70%. ("off white" finish has a 70% LRV).		X	

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Structural Elements				
2.1	Non-asphalt based damp proofing is used for basement and/or retaining wall applications (e.g. zero VOC/water based liquid acrylic, 1 ply membrane, bentonite clay, and cement-based waterproof coating).	2		☐
2.2	Western coal fly ash is used in all concrete foundations and slabs with min. 20% substituted volume of cement.	1		☐
2.4	At least 75% of roof structure lumber is certified by the Forest Stewardship Council (FSC) as a sustainable source. Additional Points for at least 75% of floor structure Additional Points for at least 75% of beams, headers and columns Additional Points for at least 75% of interior framing	2 2 2 2		☐ ☐ ☐ ☐
2.8	Low toxic materials with no urea-formaldehyde resin are used for all sub-floor, roof and wall sheathing.	2		☐
2.9	An integral wall system is used that combines structural and thermal properties, and/or finish. Additional Points for regionally extracted or recovered, processed and manufactured within 500 miles Additional Points for regionally extracted or recovered, processed and manufactured within 250 miles	 2 4		☐ ☐ ☐
2.10	Structural products (other than those for walls) from regional manufacturers within 250 miles (e.g. beams lintels, headers, columns). This item does not include concrete slabs on grade or conventional wood trusses) 1 pt. per category (max. 2 pts.)			☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Energy Rating/Performance				
3.2	Participate in a third-party Energy Certification Program such as EPA Energy Star Home, Environments for Living, Build America or Utility Company Programs List name of program –	3		☐
3.3	An Energy Usage Guarantee is provided by builder or third-party energy performance provider.	3		☐
Thermal Envelope				
4.4	Perform a third-party building envelope air leakage (blower door) test with less than or equal to 0.35 air changes per hour (0.35 CFM at 50 Pascal's pressure per sq. ft. or less). Additional Points for less than or equal to 0.25 air changes per hour	4 2		☐ ☐
4.5	Wood windows or wood clad windows are certified by the Forest Stewardship Council (FSC) or windows made from non-wood materials.	2		☐
4.6	Wood windows or wood clad windows are certified by the Sustainable Forest Initiative (SFI).	1		☐
4.15	Insulation has a minimum of 25% recycled content (e.g., cellulose, denim).	2		☐
4.16	Dwelling is insulated with formaldehyde-free insulation.	2		☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Heating, Ventilation, and Air Conditioning				
5.4	Perform a duct leakage test measured in CFM at 25 Pascal's pressure with equal to or less than 3% of the floor area served by each unit, or equal to or less than 5% of the fan flow at high speed for each system installed.	4		☐
5.5	Design and install a whole building ventilation system as specified in Table 4.1a of ASHRAE Standard 62.2 or at a rate of 15 CFM for the master bedroom, 7.5 CFM for additional bedrooms and 0.01 CFM for each square foot of total conditioned floor area. The system shall operate automatically or continuously with manual override as part of an energy recovery ventilator or balanced exhaust/supply fan system.	4		☐
5.18	Bathroom exhaust fans are operated by an occupant sensor, automatic humidistat controller, or timer for either a timed interval or until humidity level is reduced.	2		☐
5.19	Test for radon and if radon level is 2 pCi/L (pico Curies per Liter) or more, install a radon ventilation system per Environmental Protection Agency (EPA) guidelines	3		☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Electrical Power, Lighting, and Appliances				
6.1	Interior floor covering is light in color, with a minimum light reflectance value (LRV) of 25%.	1		☐
6.4	At least 50% of lighting fixtures have an efficacy of 40 lumens per watt (l/w) or more. High-efficacy lighting includes compact or tubular fluorescent and light-emitting diodes (LEDs).	2		☐
Plumbing System				
7.8	All bathroom faucets and showerheads are high efficiency (2.0 or less GPM).	3		☐
7.9	A Point of Use water treatment system is installed that meets applicable NSF/ANSI Standards (#42, #53, #55) with a treated water recovery rate equal to at least 70% of water intake. OR A Point of Entry water treatment system is installed that meets applicable NSF/ANSI Standards (#42, #53, #55) with a treated water recovery rate equal to at least 70% of water intake	2 3		☐ ☐
Roofing				
8.1	A minimum of 25% of the roofed area uses recycled or recycled content roof material (e.g. metal, rubber, or salvaged roof tiles). Additional Point for 50% of the roofed area meets the criteria.	2 1		☐ ☐
8.6	Roof covering has min. 35-year manufacturer's warranty or otherwise uses bitumen underlayment or equivalent material (e.g., 90 lb. underlayment) under concrete, clay, or slate roofing materials.	2		☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Exterior Finishes				
9.1	Exterior finishes are derived from regional sources within 500 miles of jobsite. This includes stone or cultured stone veneers that are regionally quarried or processed.	1		☐
9.2	Dwelling uses reconstituted or recycled-content siding (minimum 50% pre-or post-consumer).	1		☐
9.4	Stucco or siding material is integrally colored.	1		☐
9.6	Fascia, soffit and trim elements are made of recycled-content materials or engineered wood products such as finger jointed trim, fiberboard, laminated strand lumber or OSB.	1		☐
Interior Finishes				
10.1	Wallboard used in the home is made with min. 25% recycled content, such as wheat board with agricultural by-products or gypsum board with industrial by-product gypsum or flue-gas waste product.	2		☐
10.2	Adhesives used for installation of materials such as drywall, paneling, carpet, wood flooring, ceramic or VCT tile, cove base, etc., contain a maximum VOC (volatile organic compound) content of 100 grams/liter.	2		☐
10.3	Interior paints, coatings and primers contain zero VOC's or meet Green Seal Standard GS-11 limits of 150 grams/liter for non-flat paints and 50 grams/liter for flat paints past pigment addition.	2		☐
10.4	Interior paints contain no acetone, formaldehyde or ethylene glycol.	2		☐
10.5	Interior paints and finishes contain a minimum of 20% recycled content.	2		☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Interior Doors, Cabinetry, and Trim				
11.1	All solid wood doors are domestic hardwoods or certified by the Forest Stewardship Council (FSC).	2		☐
11.2	All solid wood doors are certified by the Sustainable Forest Initiative (SFI).	1		☐
11.3	No composite doors used or composite doors are made from non-toxic binders (no added formaldehyde).	2		☐
11.4	Casework for cabinets, counters and other built-in furniture is formaldehyde free.	2		☐
11. 5	All exposed substrate materials containing formaldehyde, such as the inside of cabinets and the underside and edge of counters, are sealed with a water-based formaldehyde blocking finish.	2		☐
11.6	Casework is domestic hardwood, from a FSC (Forest Stewardship Council) certified sustainable source, and/or is a rapidly renewable material (a material that re-generates itself within a ten year period).	2		☐
11.7	Casework is from a SFI (Sustainable Forest Initiative) certified sustainable source.	1		☐
11.8	All interior trim is finger-jointed/engineered wood, domestic hardwood, from an FSC- or SFI- certified sustainable source, is a rapidly renewable material, or contains recycled content.	1		☐
11.9	Cabinets are pre-finished off-site OR are finished on-site with a product that contains a maximum VOC content of 350 grams/liter.	1		☐
11.10	Countertops are manufactured from recycled content material.	1		☐
11.11	Countertops are made from concrete or regionally processed or quarried stone or tile from within 500 miles of job site.	1		☐
11.12	No tropical woods are used in the entire home.	1		☐
11.13	No wood base, cove, crown molding, door or window trim is used in the entire home, unless it is recycled or salvaged material.			☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

Flooring				
12.1	Carpeting and padding certified under the Carpet and Rug Institute's Green Label Plus program.	1		☐
12.2	Recycled content (e.g., carpet, pad, tile) or salvaged (e.g., reclaimed wood) flooring.	1		☐
12.3	Flooring is made from a rapidly renewable material (bamboo, linoleum, cork, wool or other materials that are regenerated within a 10-year cycle).	2		☐
12.4	Flooring is from a FSC (Forest Stewardship Council) certified sustainable source.	2		☐
12.5	Flooring is from a SFI (Sustainable Forest Initiative) certified sustainable source.	1		☐
12.6	Stone or tile flooring that is quarried, processed and/or made within 500 miles of site.	1		☐
12.8	Carpeting is used on less than 25% of conditioned floor area. Additional Point for no carpeting used at all.	2 1		☐ ☐
Solid Waste				
13.1	Project includes separate recycling bins during construction for diverting materials from the landfill including cardboard, wood, drywall, foam, metal, concrete, masonry, tile, asphalt. 1 pt. for each item recycled by builder or waste hauler			☐

Green Building Certificate of Compliance

Self-Certified Checklist Items

Residential (single and multiple single-family dwellings per IRC)

1 pt. for each item recycled by builder or waste hauler

CERTIFICATION OF COMPLIANCE (to be completed and submitted at Final Building Inspection)

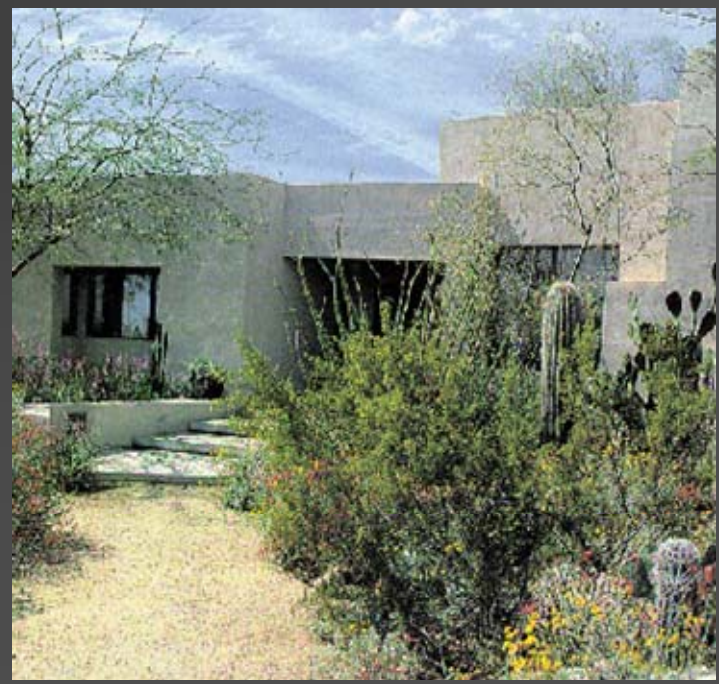
By affixing my signature below, the undersigned does hereby declare and affirm to the City of Scottsdale that all of the selected green building checklist items, as specified on the city approved plans and green building rating checklist, have been met for the indicated points and will, if audited, provide the necessary supporting documents (specs, test results, photos, homeowner's manual, etc.).

Responsible Party (building permit holder)	**Date**	
	Printed Name	
	Title	
	Company Name & Phone Number	
	Signature	

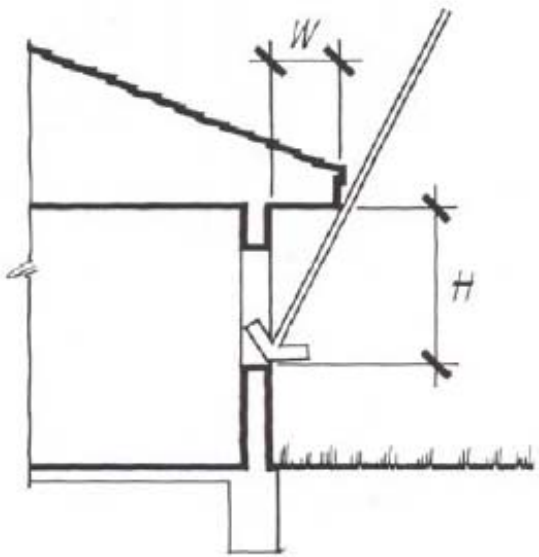
Mandatory Measures

Mandatory Measures

- Site
  - Protect all exterior entrances from direct summer sun exposures (east, west, south)
    - recessed or covered entry
  - Native or Xeriscape landscape



Overhang Dimensions



Roughly appropriate overhang dimension W can be calculated by selecting the shade line factor (SLF) from the table below and inserting in the formula:

W (overhang dimension) = H / SLF

Shade Line Factors (SLF) for Phoenix region (latitude 33.5°)	
Window Faces	**Shade Line Factor**
East	0.8
Southeast	1.4
South	3.6
Southwest	1.4
West	0.8

Size & spacing of shading elements is a function of the orientation, time of day & year.

Porch Entries

Recessed Entrances

Trellis Entry

Courtyard Entry

Arcade Entry

Louvers & Trellis

Movable shading at west elevation of remodel home

Mandatory Measures

- Energy Efficiency
  - Building must be designed to be at least 15% above IECC (International Energy Conservation Code) OR meet Energy Star for Homes standard

RES*check*

www.energycodes.gov

www.energystar.gov

Mandatory Measures

- Energy Efficiency
  - Insulated ductwork
  - Return air paths

Mandatory Measures

- Energy Efficiency
  - Ceiling fans
  - Programmable thermostat

Mandatory Measures

- Indoor Environmental Quality
  - Carbon monoxide (CO) detectors
  - Energy Star Exhaust fans with air flow rate per ASHRAE Std. 62.2

Mandatory Measures

- Indoor Environmental Quality
  - Supply air filtering per MERV 8
  - Kitchen and bathroom min. exhaust rate
  - Seal off ducts during construction

Bathroom exhaust

Pleated filter

Mandatory Measures

- Lighting
  - Light Reflective Value (LRV)
  - Task lighting

Mandatory Measures

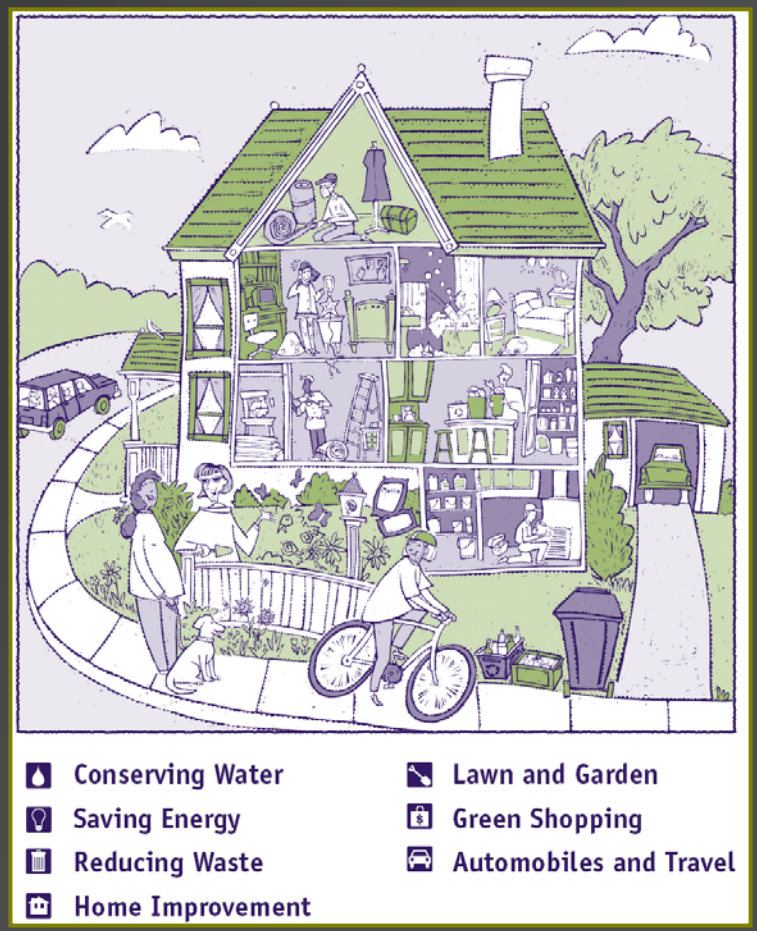
- Plumbing
  - Insulated hot water lines
  - On demand hot water recirculation system
  - High efficiency toilets

Mandatory Measures

- Interior Finishes
  - Low VOC paints and finishes
- Solid Waste
  - Built-in kitchen recycling center

Mandatory Measures

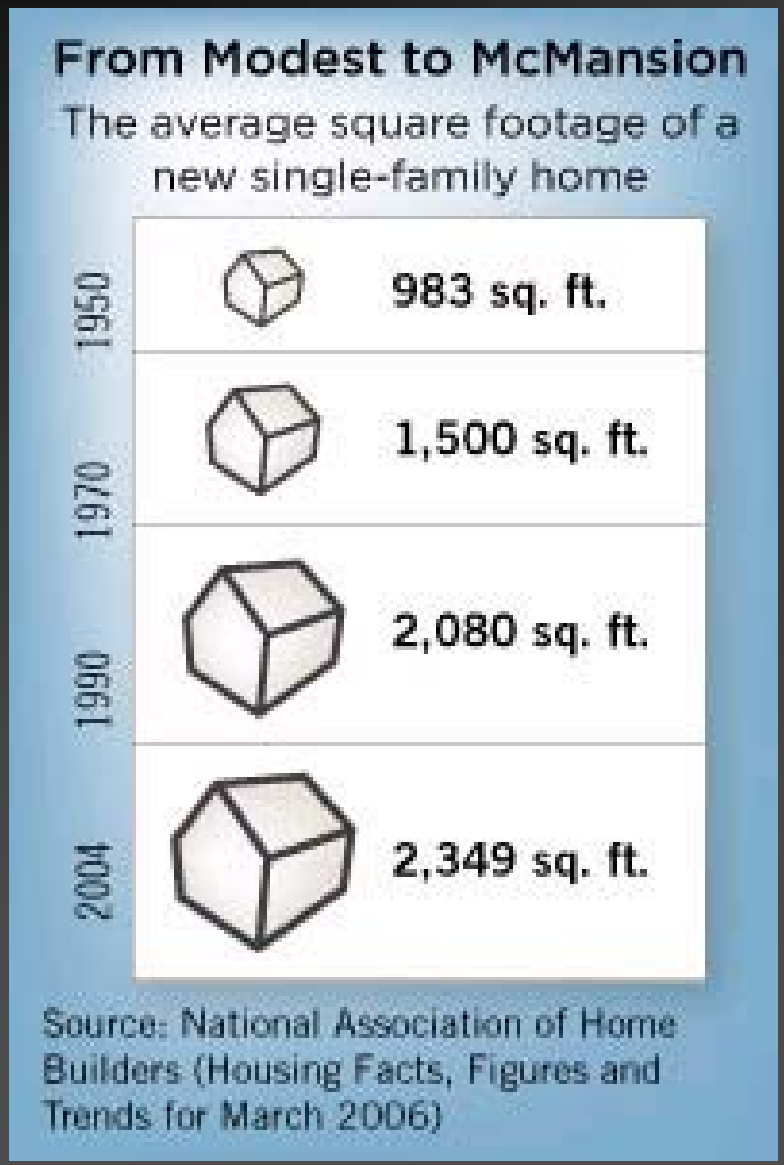
- Homeowner’s manual
  - green certificate of occupancy
  - self-certification certificate
  - manufacturer’s manuals
  - info on the efficient operation of HVAC system, lighting and water-using appliances and fixtures



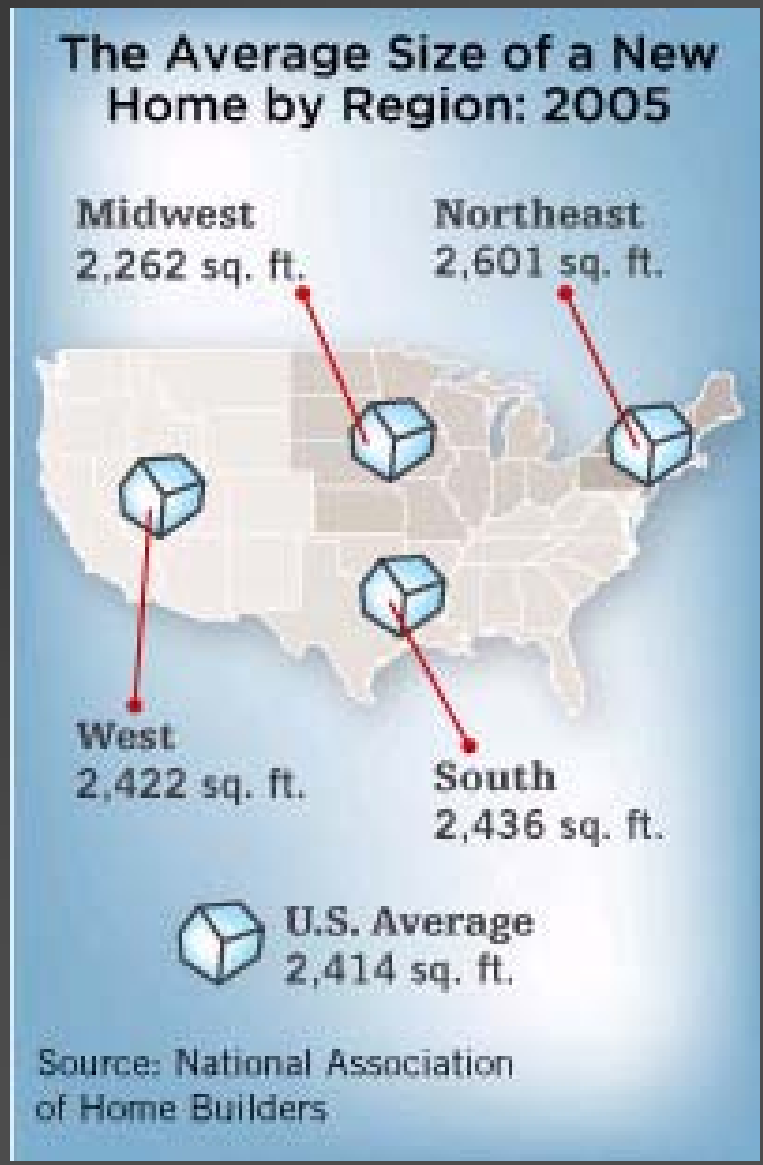
House Size Adjustment

- Small House gain points
  - Plus 1 Point for every 100 sq. ft. under 3000 sq. ft.
- Large House loses points
  - Minus 1 Point for every 250 sq. ft. over 3500 sq. ft.

National House Size Growth

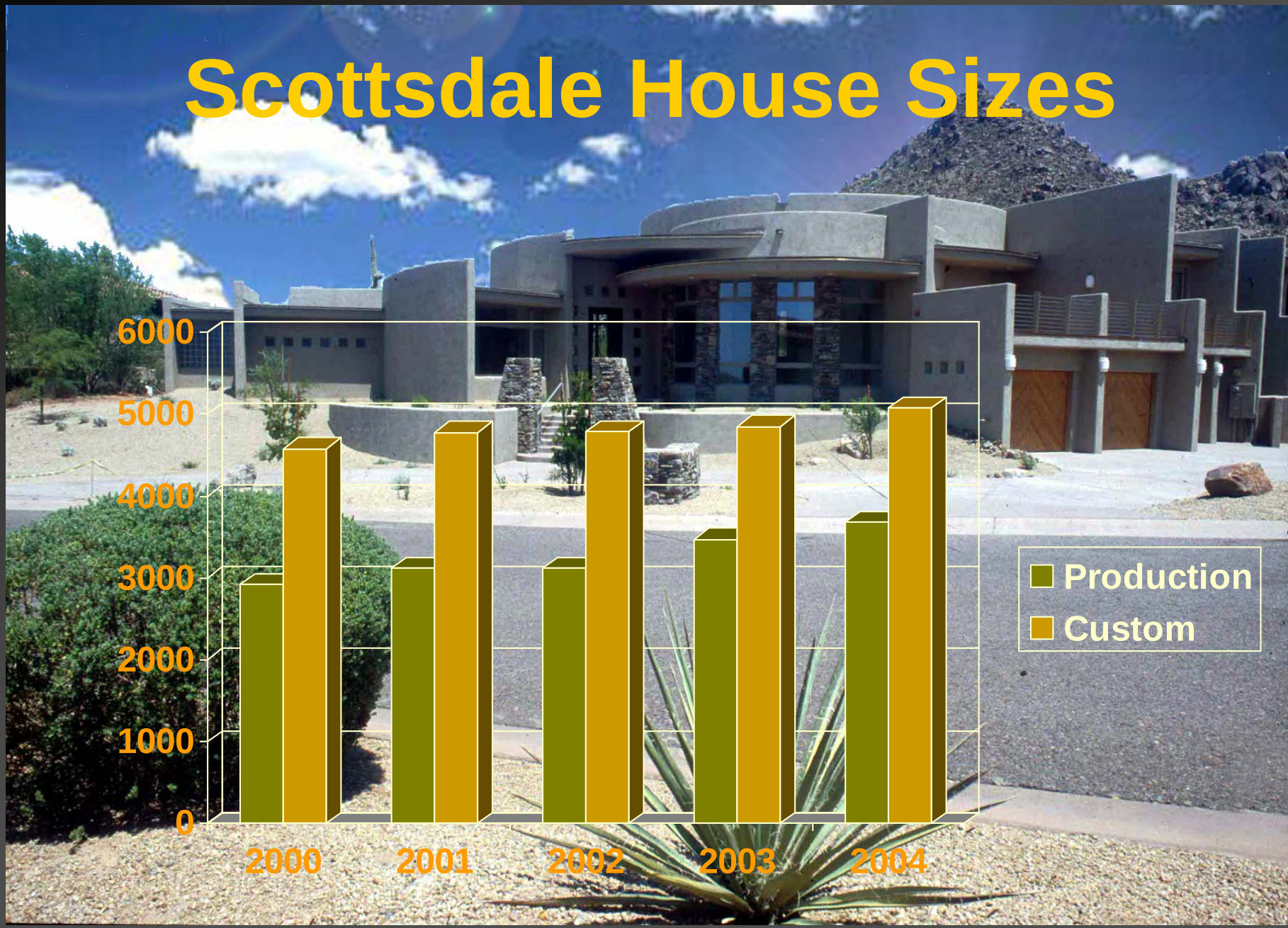


Doug Beach for NPR



Doug Beach for NPR

Scottsdale House Sizes



LEED for Homes Rating Checklist

Points for Home Size

House Size In Square Feet (By Number of Bedrooms)					Score
0 Bedrooms	1 Bedroom	2 Bedrooms	3 Bedrooms	4 or More Bedrooms	
300	550	800	1000	1150	***10***
380	610	920	1180	1450	***8***
460	670	1040	1360	1750	***6***
540	730	1160	1540	2050	***4***
620	790	1280	1720	2350	***2***
700	**850**	**1400**	**1900**	**2650**	***0***
780	910	1520	2080	2950	***-2***
860	970	1640	2260	3250	***-4***
940	1030	1760	2440	3550	***-6***
1020	1090	1880	2620	3850	***-8***
1100	1150	2000	2800	4150	***-10***
>1100	>1150	>2000	>2800	>4150	***etc.***

House sizes based on from national average.

Rating Options

1. Site Use

- Credit for Multi-Family Housing
  - Dwelling has one or two shared common walls
  - Duplex, townhomes or condominiums

Outdoor Living Spaces

- Create shade while letting air and rain pass through
  - Open weave fabric
  - Trellis, arbor
  - Removable/ retractable shade structured

Maximizing Shade for Outdoor Living

Courtyards and
Tree canopies

3. Thermal Envelope

- Higher Energy Rating
  - Building must be designed to be at least 30% above IECC (International Energy Conservation Code)
  - Additional points for 50% above IECC

RES*check*

www.energycodes.gov

4. HVAC & Indoor Air Quality

- Point options
  - Alternative heating/cooling systems

5. Electrical Power, Lighting and Appliances

- Point options
  - Daylighting
  - Non-incandescent lighting

5. Electrical Power, Lighting and Appliances

- Point options
  - Solar electric (PV) power system

6. Plumbing System

- Point options
  - High efficiency toilets (1.3 or less gal./flush) or dual control flush
  - High efficiency bathroom faucets and shower heads (2.0 or less GPM)

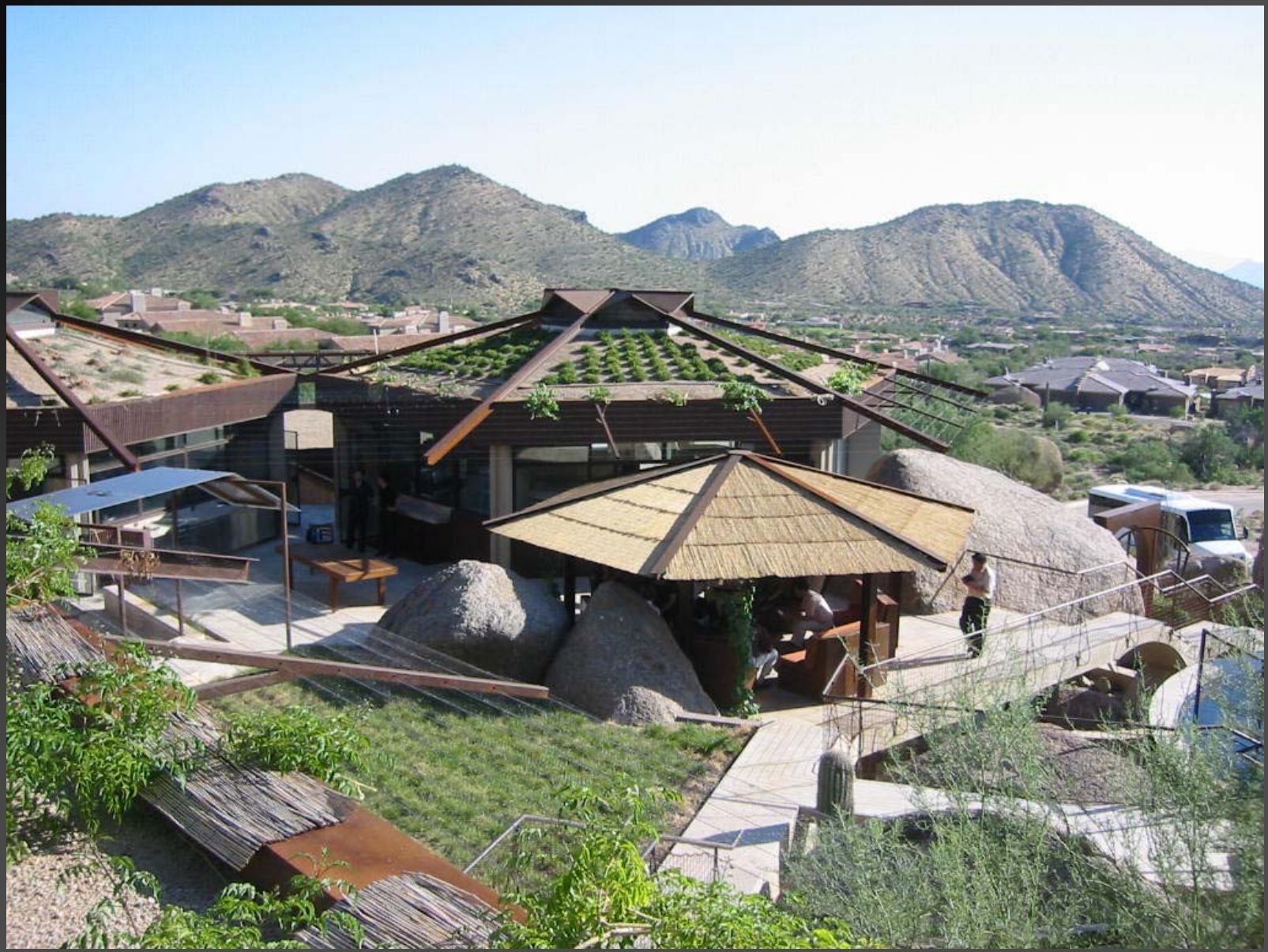
10. Interior Doors, Cabinetry, and Trim

- Point options
  - Doors and casework is domestic hardwood or from certified sustainable source
  - Formaldehyde free casework
  - Concrete or regionally quarried and processed stone countertops

12. Solid Waste

- Point options
  - Separate recycling bins for construction waste
  - Allocated area for city recycling containers

Scottsdale Projects



Beaulieu Residence
Green Hydrogen House

Hovey Residence
Building Integrated PV

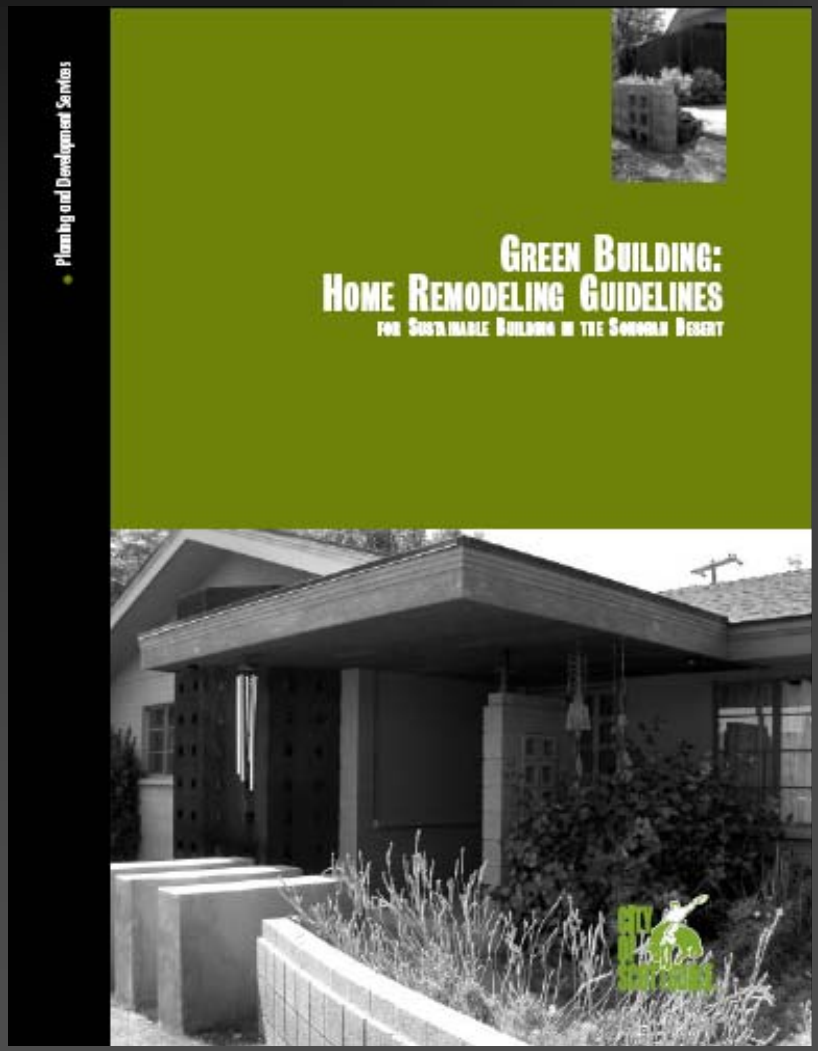
Foster Residence
Autoclaved Aerated Concrete
Edwards Design Group

Foster Residence – Daylighting, Solar Power, Framing

Edwards Design Group

Strata International – Saebi Alternative Building System

Green Home Remodeling



- Project guide
  - Site Use & Landscaping
  - Energy Efficiency & Renewables
  - Indoor Environmental Quality & Health
  - Water & Resource Efficiency
  - Project Types

McDonnell Residence
Remodel and Addition

McDonnell Residence
Remodel and Addition

Daylighting and Solar Control

City Resolution

- All new, occupied city buildings shall be designed, contracted and built to achieve the LEED™ Gold certification level.
  - where the payback is anticipated to be more than five (5) years, City staff is directed to recommend to the City Council which level of LEED™ certification is appropriate for that particular project.

Scottsdale Senior Center

Scottsdale's 1st LEED Gold city facility

Solar Canopy Installation on April 9, 2006
Scottsdale Senior Center

Pipeline for LEED Gold Projects

- Arabia Library (LEED Silver)
- Police Forensic Lab (LEED Silver)
- Police District Station 1
- Fire Station No. 2
- Civic Center Office Building
- Westworld Exhibit Hall
- Scottsdale Center for the Performing Arts Interior Remodel (LEED Silver)

Preliminary Design
Scottsdale Scottsdale Fire Station No. 602

New Developments

- Green commercial guidelines for private development
  - Sonoran Desert context

Scottsdale Pilot Program

City of Scottsdale

Commercial Green Building Checklist

New Construction and Major Renovation

Based on 2001 Pilot Program

	Documentation Required	Select Items	
This checklist is designed to be a commercial counterpart to the Scottsdale Residential Green Building Program rating checklist. It is prescriptive-based and intended to address the local issues of Scottsdale in the regional context of the Sonoran Desert. Inspections, verification and certification will be administered by the city. There are four rating levels: Level 1 - Meet all prerequisites of checklist items; Level 2 - acquire 25 - 49 % of checklist items; Level 3 - acquire 50 - 74% of checklist items; Level 4 - acquire 75% or more of checklist items.			
1 - SUSTAINABLE SITES			
1.1 Site Selection & Disturbance			
Prerequisites: * Stormwater management per Scottsdale ordinance. * Scottsdale Environmentally Sensitive Lands Ordinance. * General Plan conformance. * Dust control per Maricopa County regulations.			

Optima Camel View Village

Largest Scottsdale Green Building Project

11 buildings - 750 residential units - 38,000 sq. ft. retail

Optima Camel View Village

Under construction – April 15, 2006

Safari Drive
Scottsdale Green live/work mixed-use village

Hayden Array
Modus Development – merz project

Future Outlook

- Updated Rating and Inspection Process – Sept. 2006
- New Code Adoption – Jan. 2007
- Mandatory Items
- Voluntary with Incentives

www.scottsdaleaz.gov/greenbuilding